

STANDARD INSPECTION REPORT OF A GAS OPERATOR FIELD AUDIT

FIELD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.
If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

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| Operator: AMEREN ILLINOIS COMPANY | Operator ID#: 32513 |
| Inspection Date(s): 5/24/2016, 5/25/2016 (Half), 5/26/2016 | Man Days: 2.5 |
| Inspection Unit: Belleville/E. St. Louis | |
| Location of Audit: Belleville, Millstadt, Fairview Heights, Lebanon | |
| Exit Meeting Contact: | |
| Inspection Type: Standard Inspection - Field Audit | |
| Pipeline Safety Representative(s): Kevin Hecker | |
| Company Representative to Receive Report: Michael Fuller | |
| Company Representative's Email Address: mfuller2@ameren.com | |

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| Headquarters Address Information: | 300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#: | |
| Official or Mayor's Name: | Ron Pate Phone#: (217) 424-6518 Email: | |
| Inspection Contact(s) | Title | Phone No. |
| Chuck Tebbe | Quality Assurance Consultant | |

| CUSTOMER METER & REGULATOR | Status |
|---|--------|
| <u>Category Comment:</u> <i>Staff observed meter sets at the following locations in Belleville (unless otherwise noted):</i> 19 Bellevue Park Plaza 20 Bellevue Park Plaza 21 Bellevue Park Plaza 115 N. 47th Street 236 Gray Street 28 Lake Shore Drive 600 Belvedere 604 Belvedere 605 Belvedere 608 Belvedere 306 Bernard 46 Shady Lane 25A Magnolia 25B Magnolia 27 Magnolia | |

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29 Magnolia
4 Fawnlily
6 Fawnlily
1 Larkspur
2 Larkspur
9 Larkspur
17 Hollyhock
21 Hollyhock

339 Frank Scott Parkway E, Fairview Heights, IL

35 Commerce Drive (Lebanon)

| | | |
|---|--|-----------------------|
| [192.353(a)] | Is the customer meter and regulator installed in a readily accessible location and protected from corrosion and other damage, including if installed outside a building, vehicular damage that may be anticipated? | Satisfactory |
| [192.355(b)(1)] | Is the customer regulator vent rain and insect resistant? | Satisfactory |
| [192.355(b)(2)] | Is the customer regulator vent located where gas from the vent escapes freely into the atmosphere and away from building openings? | Unsatisfactory |
| <u>Issue Comment:</u> <i>The customer regulator vent at 28 Lake Shore Drive, Belleville is very close to the dryer vent opening, which could potentially provide a path for gas to enter the structure.</i> | | |
| [192.355(b)(3)] | Is the vent protected from damage caused by submergence in areas of flooding? | Not Applicable |
| <u>General Comment:</u> <i>No meter sets were observed in areas prone to flooding.</i> | | |
| [192.357(a)] | Is the customer meter and regulator installed to minimize anticipated stresses upon connecting piping? | Satisfactory |
| [192.357(d)] | Is a customer regulator that might release gas vented to the outside atmosphere? | Satisfactory |
| [192.359(a)] | Is the meter operating pressure within the allowable limits of the meter case rating? | Satisfactory |
| [192.365(a)] | Is the service line valve upstream of the regulator or meter? | Satisfactory |
| [192.365(c)] | Is the underground service line valve located in a curb box or standpipe that allows for ready operation? | Satisfactory |
| <u>General Comment:</u> <i>Underground service line valves were observed at Belleville Township High School-East located at 2555 West Blvd, Belleville and an apartment building at 115 N. 47th Street, Belleville.</i> | | |
| [192.727(d)][192.727(d)] | When service to the customer has been discontinued has the proper method been utilized to prevent unauthorized usage? | Satisfactory |
| <u>General Comment:</u> <i>Staff observed a pin locked and capped riser at 306 Bernard.</i> | | |
| CATHODIC PROTECTION | | Status |

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| [192.463(a)] | Is the applicable cathodic protection criteria contained in Appendix D of this part being followed? | Satisfactory |
| [192.465(a)] | Were pipe to soil readings taken? | Satisfactory |
| <p><u>General Comment:</u></p> <p><i>Pipe-to-soil readings were taken at the following locations:</i></p> <p>115 N. 47th Street: -1.17 236 Gray Street: -1.33 600 Belvedere: -1.31 604 Belvedere: -1.31 306 Bernard: -1.17 28 Lake Shore Drive: -1.27 46 Shady Lane: -1.15 25A/25B Magnolia: -1.28 29 Magnolia: -1.28 4 Fawnlily: -1.28 6 Fawnlily: -1.27 1 Larkspur: -1.27 2 Larkspur: -1.22 9 Larkspur: -1.26 17 Hollyhock: -1.24 21 Hollyhock: -1.23 Farm tap at 8500 Old St. Louis Road (East St. Louis): -1.86 Farm tap at 1050 Route 158 (Millstadt): -2.43 5909 N. Illinois Street (Fairview Heights): -1.26</p> | | |
| [192.465(b)] | Were rectifier installations inspected? | Satisfactory |
| <p><u>General Comment:</u></p> <p><i>Staff inspected the following rectifiers:</i></p> <p><i>Rectifier near Eiler Road & Old St. Louis Avenue intersection:</i> Coarse setting: 2 Fine setting: 3 20V @ 8A with 20A/50mV shunt</p> <p><i>Rectifier near 1050 Route 158:</i> Coarse setting: 2 Fine setting: 5 23V @ 7A with 15A/50mV shunt</p> | | |
| [192.465(a)] | Were isolated mains/services tested? | Satisfactory |
| <p><u>General Comment:</u></p> <p><i>Cathodic protection reading were obtained at the following isolated services:</i></p> <p>25A/25B Magnolia: -1.28 29 Magnolia: -1.28</p> | | |
| [192.465(c)] | Were critical/non critical bonds tested? | Satisfactory |
| <p><u>General Comment:</u></p> <p><i>Staff inspected a critical bond on Longacre Drive (near Ram Court) in Fairview Heights where Buckeye's pipeline and Ameren's 14" high pressure distribution main cross. Staff obtained the following readings:</i></p> | | |

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Buckeye Pipeline: -2.57
Ameren's Pipeline: -1.74

| | | |
|--------------|---|---------------------|
| [192.467(a)] | Is electrical isolation provided by use of insulated meter spud, valve, union, or flange? | Satisfactory |
| [192.467(c)] | Were casings installations tested for electrical isolation? | Satisfactory |

General Comment:

Cathodic protection readings were obtained on casings at the following locations:

Casing at 47th and Main Street
Carrier pipe: -1.282
Casing: -.668

Casing near 1920 Route 158
Carrier pipe: -1.330
Casing: -.604

| | | |
|--------------|---|-----------------------|
| [192.479(a)] | Is the above ground piping coated or painted as required? | Unsatisfactory |
|--------------|---|-----------------------|

Issue Comment:

Staff observed disbonded coating at the inlet side of the filter riser at the regulator station located at 9808 Old St. Louis Road, East St. Louis, IL.

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| [192.479(c)] | Is the pipeline free of corrosion or pitting? | Satisfactory |
|--------------|---|---------------------|

DAMAGE PREVENTION

Status

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| [192.614] | Does the operator have a valid notification of planned excavation activities? | Not Checked |
|-----------|---|--------------------|

General Comment:

Staff did not request documentation for the excavation observed.

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|-------------|---|--------------------|
| [265.40(a)] | Did the operator complete the locating activities in the specified timeframe? | Not Checked |
|-------------|---|--------------------|

General Comment:

Staff did not request documentation for the excavation observed.

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| [192.614(c)(5)] | Were temporary markings made in accordance with the operator's Operation and Maintenance Manual? | Satisfactory |
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General Comment:

Staff observed locate markings for a 14" high pressure distribution pipeline near an excavation at Pontiac Drive and Longacre Drive, Fairview Heights.

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| [192.707(a)(1)] | Are line markers placed and maintained as close as practical over each buried main and transmission line located at each crossing of a public road and railroad? | Satisfactory |
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General Comment:

Line markers were observed at the following road/railroad crossings:

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| | | |
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| <i>Casing at 47th and Main Street Road crossing near 8500 Old St. Louis Road Casing at Longacre Drive and IL-159 Road crossing on IL-158 near Meadowlark Drive</i> | | |
| [192.707(a)(2)] | Are line markers placed and maintained as close as practical over each buried main and transmission line located wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference? | Satisfactory |
| <u>General Comment:</u> <i>Line markers were observed at the following locations to identify buried mains:</i> <i>Along IL-158 between Millstadt and Belleville Along Longacre Drive Along Green Mount Road Along Scott Troy Road</i> | | |
| [192.707(c)] | Are line markers placed and maintained as close as practical over each main and transmission line located above ground? | Satisfactory |
| <u>General Comment:</u> <i>Staff observed line markers at above ground facilities located at the following locations:</i> <i>Eiler Road Rectifier Farm Tap at 8500 Old St. Louis Road Farm Tap at 1050 IL-158 IL-158 Rectifier Reg Station #33 - State Street Road Reg Station #32 - Meadowlark and IL-158 Reg Station #106 - Indian Hills Drive Reg Station #31 - Eiler Road at Stookey Township Take Point with Enable Pipeline - 9808 Old St. Louis Road Reg Station on Longacre Drive</i> | | |
| [192.707(d)(1)] | Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The word "Warning," "Caution," or "Danger" followed by the words "Gas (or name of gas transported) Pipeline" all of which, except for markers in heavily developed urban areas, must be in letters at least 1 inch (25 millimeters) high with ¼ inch (6.4 millimeters) stroke? | Satisfactory |
| <u>General Comment:</u> <i>All line markers observed contained the required information in the correct format.</i> | | |
| [192.707(d)(2)] | Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The name and phone number (including area code) of the operator where the operator can be reached at all times? | Satisfactory |
| <u>General Comment:</u> <i>All line markers observed contained the required information in the correct format.</i> | | |
| PRESSURE LIMITING AND REGULATING DEVICES (MECHANICAL) | | Status |
| <u>Category Comment:</u> | | |

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Staff inspected regulator stations at the following locations:

9808 Old St. Louis Road (take point with Enable)
Eiler Road at Stookey Township (Station #31)
Indian Hills Drive (Station #106)
IL-158 and Meadowlark Drive (Station #32)
State Street Road (Station #33)

| | | |
|-----------------|---|---------------------|
| [192.739(a)(4)] | Was each pressure limiting station, relief device (except rupture discs), and pressure regulating station and its equipment subjected at intervals not exceeding 15 months, but at least once each calendar year, to inspections and tests to determine that it is properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.? | Satisfactory |
| [192.317(b)] | Is each above ground transmission line or main protected from accidental damage by vehicular traffic or other similar causes? | Satisfactory |

General Comment:

All regulator stations observed were protected with barriers and/or fenced enclosures.

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| [192.741(a),192.741(c)] | Were telemetering and/or recording gauges inspected for abnormally high or low pressure indications? | Not Checked |
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General Comment:

All regulator stations observed were fitted with ERX transmitters which sends data to gas control. The data was not reviewed as part of this audit.

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| [192.743(a)] | Is overpressure protection provided on the pipeline downstream of the take point? | Satisfactory |
| [192.199(d)] | Were the pressure relief or pressure limiting devices inspected to determine if the support was made of noncombustible material? | Satisfactory |
| [192.199(e)] | Were the pressure relief or pressure limiting devices inspected to determine if the discharge stacks, vents, or outlet ports were designed to prevent accumulation of water, ice, or snow, and located where gas can be discharged into the atmosphere without undue hazard? | Satisfactory |
| [192.199(h)] | Was each valve, designed to isolate the system under protection from its source of pressure, secured to prevent unauthorized operation of any stop valve that will make the pressure relief valve or pressure limiting device inoperative? | Satisfactory |

VALVE MAINTENANCE

| | | |
|--------------|---|---------------------|
| [192.747(a)] | Were the valves readily accessible and was the operator able to access the valve with the appropriate valve wrench? | Satisfactory |
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General Comment:

Staff observed emergency valves at the following locations:

#723213: Pontiac Drive & Longacre Drive (high pressure)
#10257429: Pontiac Drive & Longacre Drive (distribution)
#201195: Route 50 near ASAP Asphalt
#726405: Sweetwater Car Wash on Route 50
#726407: Wood Stream & Scott Troy Road
#1035183: Green Mount Road & Piper Hills
#10183853: Frank Scott Parkway & Depaul Drive
#10348550: Meadowlark & Route 158

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#726690TS: State Street Road Regulator Station
 #725655TS: Inlet valve to Indian Hills Drive Regulator Station
 #726690TS: Inlet valve to State Street Road Regulator Station

The following valves are located at the take point with Enable Pipeline at 9808 Old St. Louis Road, East St. Louis.

#347538TS: Additional station feed
 #726639TS: System isolation valve
 #726620TS: System isolation valve
 #726646TS: Separator inlet valve
 #726132TS: Separator bypass valve
 #729133TS: Separator outlet valve
 #726642TS: Bypass valve on control line
 #726640TS: Station outlet valve

The following valves are located at a regulator station #32 near the intersection of Route 158 and Meadowlark:

#726691TS: Inlet valve on bridal
 #726692TS: Inlet valve on bridal
 #726693TS: Wheel valve

| ODORIZATION OF GAS | | Status |
|--------------------|--|--------------|
| [192.625(a)] | Was the odor intensity level readily detectable at or below 1/5th LEL? | Satisfactory |

General Comment:

Two odorant tests were conducted at Ameren's Operating Center located at 1050 West Blvd, Belleville. The following readings were obtained:

Threshold: .31% gas in air
 Readily detectable: .50% gas in air

Threshold: .08% gas in air
 Readily detectable: .17% gas in air

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| [192.625(e)] | Was the Odorization equipment and tank levels inspected? | Satisfactory |
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General Comment:

Staff inspected the YZ injection-style odorizer at the take point with Enable pipeline located at 9808 Old St. Louis Road, East St. Louis. The 90 gallon tank in the odorizer building was approximately 5/8 full. Ameren also maintains a 1000 gallon bulk tank for odorant at this station.

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| [192.625(f)] | Was the operator's equipment calibrated as required? | Satisfactory |
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General Comment:

The Heath Odorator (serial # 3069-5) utilized for this test was last calibrated on 11/17/2015.

| TRANSMISSION | | Status |
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Category Comment:

No Ameren transmission pipelines were inspected during this audit.

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|-----------------|---|----------------|
| [192.179(b)(1)] | Are transmission valves protected from tampering or damage? | Not Applicable |
| [192.745(a)] | Were the valves inspected accessible? | Not Applicable |
| [192.719(a)] | Is pre-tested transmission pipe inventory maintained for use in an emergency? | Not Applicable |
| [192.179(c)] | If blow down activities were observed, were the blow down valves properly sized to allow the transmission pipeline to vent as rapidly as practicable and did the blow down vent freely to atmosphere away from any hazards? | Not Applicable |

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| MARKING OF MATERIAL | | Status |
|--|--|--------------|
| [192.63(a)] | Does the operator's components and pipe contain the required markings? | Satisfactory |
| OPERATOR QUALIFICATION | | Status |
| Was a PHMSA Form 15 Operator Qualification Field Inspection Protocol Form completed? | | No |

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